

## Abstract

The invention concerns an apparatus 1 for carrying out a melting and casting operation in the fine casting art comprising a melting crucible 2 for receiving melting charge, a heating device 3 for heating the melting charge in the melting crucible 2, and a pyrometer 8 for ascertaining the temperature of the melting charge. In order to improve the quality of the products manufactured with such an operation the invention provides that the apparatus 1 is provided with a control device 4 for controlling the melting and casting operation in dependence on the ascertained melting charge temperature, wherein the control device 4 has a database 16 with a plurality of selectable, respectively melting charge material-specific parameter sets PS1, PS2, PS3 each with one or more parameters for configuring the pyrometer 8.

(Figure 1)